injury but showed some sent

while on the sprayed trees there was no scab but some spray injury.

It is not possible to tell just why

the results with dusting were so much

more satisfactory in 1917 than in pre-

vious years. This success may have

been due to one or all of the follow-

of dust, finer materials or more timely

application with relation to infection

Better results were obtained at Mor-

rice and Muir, where much of the dust-

ing was done when the trees were wet

with either rain or dew than at Beld-

ing, where the trees were always dry

when material was applied. Several

growers, however, have secured satis-

factory results by dusting when the

It is very doubtful if the extra ap-

plication of dust made in July had

any beneficial effect as weather condi-

tions were not favorable for scab in-

fection before the August application.

Comparative Costs.

Dust can be applied in less than

ing factors-more efficient application



A Business Should be as Big as Its Job

If bigness is of benefit to the public it should be commended.

The size of a business depends upon the needs which that business is called upon to serve. A business should be as big as its job. You do not drive tacks with a piledriver-or piles with a tack-hammer.

Swift & Company's growth has been the natural and inevitable result of national and international needs.

Large-scale production and distribution are necessary to convert the live stock of the West into meat and by-products, and to distribute them over long distances to the consuming centers of the East and

Only an organization like that of Swift & Company, with its many packing plants, hundreds of distributing houses, and thousands of refrigerator cars, would have been able to handle the varying seasonal supplies of live stock and meet the present war emergency by supplying, without interruption:

First-The U.S. soldiers and the Allies in Europe by shipping as much as 800 carloads of meat products in a single week!

Second-The cantonments in the United

Third-The retailers upon whom the American public depends for its daily

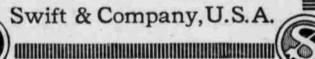
But many people ask-Do producers and consumers pay too much for the complex service rendered?

Everyone, we believe, concedes the efficiency of the Swift & Company organization -in performing a big job in a big way at a minimum of expense.

Swift & Company's total profit in 1917 was less than 4 cents on each dollar of sales of meat and by-products. Elimination of this profit would have had practically no effect on live stock and meat prices.

Do you believe that this service can be rendered for less by any other conceivable method of organization or operation?

These questions and others are answered fully and frankly in the Swift & Company 1918 Year Book sent free on request. Address Swift & Company, U. S. Yards, Chicago



"English as She Is Spoke." "This ain't where we want off at."

in a street car which was about to Takem & Breakem's today. come to a stop.

"This ain't where we want off at."-Dayton (Ohlo) News.

One Instance, She (with enthusiasm)-Oh, my

looking young woman, and they were They sold such cheap things at isfactory work and the application of ways be used. The ordinary grades He (with disgust)-Yes. I see they sold you.

We save our money because we are When a woman cuts a man's ac- economical. Other folks save theirs quaintance she looks daggers at him. because they are stingy.

say, who have gone from the U.S. to

settle on homesteads or buy land in Western

Canada made me Prosperous -that's what thousands of farmers

Canada. Canada's invitation to every industrious worker to settle in Manitoba, Saskatchewan or Aberta is especially attractive. She wants farmers to make money and happy, prosperous homes for themselves by helping her raise immense wheat crops to feed the world. You Can Get a Homestead of 160 Acres Free

or other lands at very low prices. Where you can buy good farm and at \$15 to \$30 per acre that will raise 20 to 45 bushels of \$2 wheat to the acre—it's easy to become prosperous. Canadian farmers also grow wonderful crops of Oats, Barley and Flax. Mixed Farming is fully as profitable an industry as grain raising. The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools and churches; markets convenient; climate excellent. Write for literature and particulars as to reduced railway rates to Supt. of Immigration, Ottawa, Canada, or to

> M. V. MacINNES 176 Jefferson Ave., Detroit, Mich. Canadian Government Agents



One working hard with hands and feet for low or one using your head for a good salary?

FI IS UP TO YOU.

The electrical field today demands thousands of led workmen at high wages.
We can teach you at your home during your idle rs, the

THEORY AND PRACTICE OF ELECTRICITY casary to fit you for any of these positions.

There was never in the history of this country a tier opportunity for the live man to make good, but matter what his natural ability or ambition, the in must be specially trained and instructed. That

PRACTICAL INSTRUCTION BY A PRACTICAL MAN, We give our students the personal attention and careful instruction of a Pr. clical Man who knows equally well the intricate details of electricity and the practical side of electrical work that you need to rapidly prepare yourself for well paid and attractive posi-

NO HIGH SCHOOL EDUCATION NECESSARY, and a special education to begin with, merely a fair of the English language and a real desire to learn. today for our free book on Electricity that opens the door to

FURGESS ELECTRICAL SCHOOL, YERKE BURGESS, Supt., 742 E. 42nd Street, CHICAGO, ILL.

Experiment Station Obtains Variable Results From Use of Powder on Apples.

REPORT ON DUSTING

IS MADE BY M. A. C.

IT IS TIME-SAVER

Can Be Applied in Less Than One-Half Time Required for Operation of Spraying.

By W. C. DUTTON. Experiment Station, Michigan Agricultural College.

East Lansing, Mich.-The use of sulphur and arsenate of lead applied in the form of dust as a substitute for the tual operation of spraying, exclusive standard liquid sprays to prevent the of time necessary for refilling sprayer most prevalent apple orchard troubles tank. The cost of material for dustsuch as scab (Venturia innequalis), ing has been more than for spraying. codling moth, bud moth, leaf-roller A comparison of the time required per and others, has been developed to a tree and total cost of labor and maconsiderable extent during the fast terial for one and four applications is three or four years. Experiments were | shown below:

one-half the time required for the ac-

Insect Control.

No data was secured about insect

control because there has never been

enough insect injury on the untreated

trees to give an accurate check as to

pose. Experiments in New York have

shown that the leaf-roller and codling

moth can be controlled there by the

Conclusions.

few years, it will prove of great value

to many apple growers, largely be-

cause of the ease and rapidity of ap-

For the benefit of fruit growers who

A duster of sufficient capacity and

Special dusting sulphur should al-

Home-mixing of materials should

not be tried unless a special mixing

Applications should be made from

Unlike spraying, dusting can be

More applications of dust than are

usually made of the liquid sprays will

weather conditions. The applications

The horticultural department also

plication.

Comparative Cost of Dusting and Spraying.

periods.

foliage was dry.

Time per tree, one Total cost One application

accordingly begun by the college, at | The difference in the total cost of Morrice, Shiawassee county, in 1915, the two methods-for extensive comand in other places in 1916 and 1917 mercial operations would undoubtedly to determine if possible the efficiency be smaller than is shown here. of dusts, the best formulae to use and to a limited extent the relative costs of this method under Michigan orchard conditions.

Materials Used.

The sulphur used in this work was the efficiency of the dust for this purvery fine, the manufacturers guaranteeing that 95 per cent of it would pass through a 200-mesh screen and some of that used in 1917 was finer dusting method. This work leads us still. The arsenate of lead was also to believe that the dusting method exceedingly fine, one manufacturer will control the insects in Michigan stating that his product would pass orchards, through the finest screen obtainable. In some of the work mixtures were used which contained some inert filler or diluent such as gypsum or hydrated

The dusting has all been done in direct comparison with the standard dilute lime-sulphur and arsenate of lead. What were the results?

In 1915 scab was not controlled very successfully by either dusting or spraying. A large percentage of the scubby fruit was caused by late infections. The weather conditions were very favorable for scab development after June 13. If extra applications had been made better control of scab would probably have been secured. This brings out the occasional need for an extra treatment in seasons of may care to use the dusting method frequent rains. The results at har- at this time, a few suggestions may vest showed the sprayed trees to have prove helpful. 10 per cent less of scabby fruit than the dusted trees. Other factors prob- power should be used. Efficient work ably affecting the results in the dusted cannot be done with an undersized plot were inexperience with the dust- machine. It was a well-dressed, attractive- dear, look what bargains I've got! ing method, a duster too small for satdust from one side of the trees only, of sulphur are not satisfactory.

In 1916, dusting failed almost entirely to control apple scab. The control of scab on the sprayed plot of machine is used. Starks was very poor. This is possibly explained by the fact that the two opposite directions and preferably "pink" application was made before when there is not any wind. the blossom buds had all separated in the clusters. The control in the other safely done when the foliage is wet. sprayed plots was very much better than in the dusted plots. The periods of infection were all in the early part probably be desirable. However, the of the season. In 1915 they were all number will depend largely upon

late in the season. The dusting method gave very sat- of dust should, of course, be made isfactory results in 1917. The results before scab infection periods. Cool equaled those secured in the sprayed and rainy weather is favorable to scab plots. The season was like that of development. 1916 in that the infection periods were all early in the summer. The control conducted a dusting experiment with of scab on the fruit was very satisfac- peaches in 1917 but no definite contory in most plots. The condition of clusions could be drawn from the refoliage in the dusted plot at Muir was suits of this work as there was so much better than on the sprayed trees very little injury by insects or disbecause of the spray injury on the lat- eases in the untreated plots. This ter. At Belding there was little dif- work indicated, however, that peaches ference in the condition of the foliage can be dusted safely and that peach of the two plots. At Morrice the fo- scab and brown rot can be controlled linge of the dusted trees was free by dusting.

Causes Much Loss to Potatoes in

Michigan-Can Be Controlled.

By DR. G. H. COONS,

Experiment Station, Michigan Agricul-

tural College.

East Lansing, Mich.-Of potato dis-

ases which attack the Michigan po-

tato crop, none have spread more rap-

idly in Michigan within the past two

or three years perhaps than "black

leg," a trouble which is widespread in

the upper peninsula and seems to be

1917 it had been reported but from a

few localities in the southern penin-

sula, and then, in most instances, only

in potatoes imported from northern lo-

calities. In the wholesale shipping of

tubers into the state which took place

in 1917 to supply seed stock, however, black leg was introduced into a great

number of southern Michigan coun-

ties, where It has been known to pro-

"BLACK LEG" IS MENACE | of this disease, under Michigan conditions, live over winter in soil which has borne a diseased crop. The rotation which is necessary for other reasons will eliminate all danger from

this score. Sound seed tubers free from rot. wounds, bruises, scab, or other blemish, disinfected in either formaldehyde or corrosive sublimate, will give a crop practically free from black leg. In the senson of 1915, observations which were made in the upper speninsula showed that seed tubers carefully sorted and treated gave less than onetenth of one per cent of black leg. gaining a foothold also in southern planted without care, gave a field Seed tubers from the same car,

with 75 per cent black leg. Black leg plants (including such tubers as are formed) wherever found in the field should be carefully pulled, carried from the field and destroyed. This keeps the diseased tubers out of the need stock.

Corn and Alfalfa.

Corn and alfalfa form the basis of duce losses of from 25 to 75 per cent successful live stock and poultry grow of the crop in the field and to cause ing. No other combination of feeds is erious rotting of tubers in storage. so economical in the production of It is not known whether the germs beef, pork, butter and eggs.

Foot=Ease to Be Added to Equipment of Hospital Corps at Fort Wayne.

Under the above heading the Detroit
Free Press, among other things says:
"The theory is that soldiers whose feet
are in good condition can walk further
and faster than soldiers who have corns
and bunions incased in rawhide."

The Plattelers Comp. Montel advisor

The Plattsburg Camp Manual advises men in training to shake Foot-Ease in their shoes each morning.

One war relief committee reports, of all the things sent out in their Comfort Bags or "Kits," Allen's Foot-Ease received the most praise from the soldiers and men of the navy. It is used by American, French and British troops, because it takes the Friction from the Shoe and freshens the feet. There is no foot comforter equal to Allen's Foot-Ease, the antiseptic, healing powder to be shaken into the shoes and sprinkled in the footbath, the standard remedy for over 25 years for hot, tired, aching, perspiring, smarting, swollen, tender feet, corns, bunions, blisters or callouses.

Why not order a dozen or more 25c. boxes to-day from your Druggist or Dep't, store to mail to your friends in training camps and in the army and navy.

STIRRED HIS FIGHTING BLOOD

Irishman More Than Willing to "Do His Bit" in Conflict With the Hated Enemy.

An auctioneer had been selling horses all day and his voice was getting a little husky so that he was use of words and even syllables.

bids, "One hundred dollars, two hun- insects, dred dollars, three hundred dollars,"

Then he restricted himself to calling out, "one hundred, two hundred, three

When McCarty, attracted through curiosity by the crowd, came up, the auctioneer had further abbreviated his speech, and was crying, "One hun, two hun, can't I get three hun?" Off went McCarty's coat, and he

sang out, excitedly:

fellow. Let me in it. I can take care of a few of 'em."

\$100 Reward, \$100

Catarrh is a local disease greatly influenced by constitutional conditions. It therefore requires constitutional treatment. HALL'S CATARRH MEDICINE is taken internally and acts through the Blood on the Mucous Surfaces of the System. HALL'S CATARRH MEDICINE destroys the foundation of the disease, gives the patient strength by improving the general health and assists nature in doing its work. \$100.00 for any case of Catarrh that HALL'S CATARRH MEDICINE falls to cure.

Druggists 75c. Testimonials free.
F. J. Cheney & Co., Toledo, Ohio. This summary is intended simply to show the progress of the experiments that have been conducted for the last three years with the sulphur dusts. No definite conclusions are intended to be drawn at this time from this work as the use of dusting material as a substitute for liquid mixtures is still in the experimental stage. If this method of control continues to develop as rapidly as during the past

> From Bad to Worse. "I had to get rid of that nurse girl,"

"Why?"

"She insisted on frightening the children. I warned her when she came that she was not to tell them stories about bogie men, ghosts or any unreal horrible persons." "Well?"

"She promised not to. But now every night she tells them if they don't go to sleep the Huns will come and get

A Fair Offer.

"The man that marries my daughter wins a prize for himself." "Make the prize \$50,000 and I'll go you."

Doubtless. Thief-Gimme that watch!

Victim-I would, old fellow, but really can't spare the time!

Dr. Pierce's Pellets are best for liver. lowels and stomach. One little Pellet for a laxative, three for a cathartic. Ad.

Honest labor is the best remedy for bad luck.

CITY'S GLORY LONG DEPARTED

Ruins Testify to Existence of Once Mighty Metropolis in Southeastern Africa.

In a far-off corner of southeastern Africa are hidden the ruins of a once mighty city, called in present times the Zimbabwe, or buildings of stones. The more fanciful of the scientists declare that the time of Moses may have seen the building of these crumbling walls, but the weight of evidence about ten centuries old. Whatever the true dates of the city's history, certainly its ruins today are in appearance very old, very moss hung and very pic-

There is nothing sad about the slipping away of these relics of the past, so gradually they have sunk into the soil and broken down with the pressure of time and weather. Their day of glory and prosperity was over some centuries ago, and they rest dreamily in the sunshine. Bright flowers deck the walls as of trying to hold the remaining stones together; and tall trees spread their branches wide to temper the heat of the midday sun and shelter the stones from the chill of the eve-

Insects Follow Balloons.

Lieut, Depret-Bixio of the French aviation service writes that many insects follow captive balloons in their ascent. He has seen files go as high as 2,970 feet, after which they die. Grasshoppers cling to the basket of the balloon until the air beeconomizing as much as possible in the comes too rarefied for them, when they let go and fall. He says the swallows Early in the day he had shouted the bave a glorious time catching these

> Kill the Flies Now and Prevent disease. A DAISY FLY KILLER will do it.
> Kills thousands. Lasts all season. All dealers,
> or six by express, prepaid for \$1. H. SOMERS,
> 150 De Kalb Ave., Brooklyn, N. Y. Adv.

Not to Be Outdone. The Lark-I sing above the guns. The Hen-Well, I cackle over a



To drive a tank, handle the guns, and sweep over the enemy trenches, takes strong nerves, good rich blood, a good stomach, liver and kidneys. When the time comes, the man with red blood in his veins "is up and at it." He has iron seems to prove that the city is only nerves for hardships—an interest in his work grips him. That's the way you feel when you have taken a blood and nerve tonic, made up of Blood root, Golden Seal root, Stone root, Cherry bark, and rolled into a sugar-coated tablet and sold in sixty-cent vials by almost all druggists for past fifty years as Dr. Pierce's Golden Medical Discovery. This tonic, in liquid or tablet form, is just what you need this spring to give you vim, vigor and vitality. At the fag end of a hard winter, no wonder you feel "run-down," blue, out of sorts. Try this "Medical Discovery" of Dr. Pierce's. Don't wait! To-day is the day to begin! A little "pep," and you laugh and live.

The best means to oil the machinery of the body, put tone into the liver, kidneys and circulatory system, is to first practice a good house-cleaning. I know of nothing better as a laxative than a vegetable pill made up of Mayapple, leaves of aloe and jalap. is commonly sold by all druggists as Dr. Pierce's Pleasant Pellets, and should be taken at least once a week to clear the twenty-five feet of intestines, You will thus clean the system-expel the poisons and keep well. Now is the time to clean house. Give yourself a spring house cleaning.—Adv.

图 月 田 田 田 田 田 田 田 Let Cuticura Be Your Beauty Doctor

ang out, excitedly: "Don't do this all yourself, young YOU NEED NOT SUFFER WITH **BACKACHE AND RHEUMATISM**

Oil has been a standard household remedy. They are the pure, original imported for kidney, liver, bladder and stomach trouble, and all diseases connected with used, and are perfectly harmless. The the urinary organs. The kidneys and healing, soothing oil soaks into the cells bladder are the most important organs of and lining of the kidneys and through the body. They are the filters, the puri- the bladder, driving out the posonous fiers of your blood. If the poisons which germs. New life, fresh strength and enter your system through the blood and health will come as you continue this stomach are not entirely thrown out by treatment. When completely restored to the kidneys and bladder you are doomed.

Weariness, sleeplessness, nervousness, despondency, backache, stomach trouble, headache, pain in loins, and lower abdomen, gall-stones, gravel, difficulty when Do not delay a minute. Delays are urinating, cloudy and bloody urine, rheu-

For centuries GOLD MEDAL Haarlem | have been a standard household remedy. your usual vigor, continue taking a capsule or two each day. They will keep you in condition and prevent a return of the disease.

especially dangerous in kidney and bladmatian, sciatica, lumbago, all warn you der trouble. All reliable druggists sell to look after your kidneys and bladder. GOLD MEDAL Haarlem Oil Capsules. GOLD MEDAL Haarlem Oil Capsules are They will refund the money if not as represented. In three sizes, sealed packages. They are not a "patent medicine" nor Ask for the original imported GOLD a "new discovery." For 200 years they MEDAL. Accept no substitutes.

Carter's Little Liver Pills

You Cannot be Constipated and Happy

A Remedy That Makes Life Worth Living

A BSENCE of Iron in the Blood is the reason for many colorless faces but

CARTER'S IRON PILLS
will greatly help most pale-faced people

ATTENTION! Sick Women

LYDIA E. PINKHAM'S VEGETABLE COMPOU

